## Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the instant application:

## **Listing of Claims:**

1. (Currently Amended) An integrated circuit, comprising:

at least one DC to DC converter including structure for receiving a single DC supply voltage and structure for producing a plurality of output DC supply voltages at a greater voltage level than said received DC supply voltage; and

processing circuitry having structure for receiving at least one of said produced DC supply voltages as its supply voltage and at least one time-varying data input signal, said processing circuitry <u>further having structure for modifying</u> at least one parameter of said time-varying signal to produce at least one modified time-varying output data signal and structure for scaling said modified output data signal based on a voltage level of said one produced DC supply voltage received by said processing circuitry, wherein an output voltage level of said at least one modified output signal is scaled to an output voltage level of said at least one ef-said produced DC supply voltage[[s]] received by said processing circuitry.

2. (Previously Presented) The integrated circuit of claim 1, wherein said time-varying input signal comprises an RF signal or a microwave signal.

- 3. (Previously Presented) The integrated circuit of claim 1, wherein said at least one parameter is selected from the group consisting of a voltage level, a polarity, and a frequency.
- 4. (Previously Presented) The integrated circuit of claim 1, wherein said DC to DC converter includes structure for receiving opposite phase clock signals, said clock signals toggling between said supply voltage and ground.
- 5. (Original) The integrated circuit of claim 1, wherein said processing circuitry comprises digital circuitry.
- 6. (Original) The integrated circuit of claim 1, wherein said processing circuitry comprises analog circuitry.
- 7. (Original) The integrated circuit of claim 1, wherein said processing circuitry comprises analog and digital circuitry.
- 8. (Original) The integrated circuit of claim 1, wherein said time-varying input signal is a digital signal.

9. (Original) The integrated circuit of claim 1, wherein said time-varying input signal is an analog signal.

- 10. (Original) The integrated circuit of claim 1, wherein said parameter of said time-varying signal that is modified by said processing circuitry is programmable.
- 11. (Original) The integrated circuit of claim 1, wherein said processing circuitry comprises an input buffer and an output buffer.
- 12. (Previously Presented) The integrated circuit of claim 1, further comprising at least one passive element for providing programmability to said at least one of said plurality of output supply voltages.
- 13. (Original) The integrated circuit of claim 12, wherein said at least one passive element is a peripheral passive element.
- 14. (Original) The integrated circuit of claim 1, wherein said DC to DC converter is switched capacitor based.

## 15-16. Cancelled

A circuit board, comprising:

a plurality of integrated circuits disposed on said board, said plurality of integrated

circuits collectively requiring a plurality of different DC supply voltage levels and a

plurality of different time-varying data signals at respective inputs for operation; and

a power supply integrated circuit (IC) disposed on said board and coupled to said

plurality of integrated circuits, said power supply IC operable to provide said required

voltage levels and said required time-varying signals at said respective inputs, said power

supply IC comprising:

at least one DC to DC converter including structure for receiving a single DC

supply voltage and structure for producing at least said plurality of required DC supply

voltages, said produced DC supply voltages being at a greater voltage level than said

received DC supply voltage, and;

processing circuitry having structure for receiving at least one of said produced

DC supply voltages as its supply voltage and at least one time-varying data input signal,

said processing circuit further having structure for modifying at least one parameter of

said time-varying signal to produce at least one of said required time-varying output

signals and structure for scaling said modified output data signal based on a voltage level

of said one produced DC supply voltage received by said processing circuitry, wherein an

output voltage level of said at least one of said produced time-varying output signals is

scaled to an output voltage level of said at least one of said produced DC supply voltages

received by said processing circuitry.

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- 18. (Previously Presented) The circuit board of claim 17, wherein said time-varying input signal comprises an RF signal or a microwave signal.
- 19. (Previously Presented) The circuit board of claim 17, wherein said at least one parameter is selected from the group consisting of a voltage level, a polarity, and a frequency.
- 20. (Previously Presented) The circuit board of claim 17, wherein said DC to DC converter includes structure for receiving opposite phase clock signals, said clock signals toggling between said supply voltage and ground.
- 21. (Original) The circuit board of claim 17, wherein said processing circuitry comprises digital circuitry.
- 22. (Original) The circuit board of claim 17, wherein said processing circuitry comprises analog circuitry.
- 23. (Original) The circuit board of claim 17, wherein said processing circuitry comprises analog and digital circuitry.

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24. (Original) The circuit board of claim 17, wherein said time-varying input signal is a digital signal.

25. (Original) The circuit board of claim 17, wherein said time-varying input signal is an analog signal.

26. (Original) The circuit board of claim 17, wherein said parameter of said time-varying signal that is modified by said processing circuitry is programmable.

27. (Original) The circuit board of claim 17, wherein said processing circuitry comprises an input buffer and an output buffer.

28-29. Cancelled

30. (Original) The circuit board of claim 17, wherein said DC to DC converter is switched capacitor based.

## 31. Cancelled